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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/588,266	12/28/2009	Toru Onodera	Q96406	6456
23373 SUGHRUE MI	7590 06/03/201 ON, PLLC	EXAMINER		
2100 PENNSYLVANIA AVENUE, N.W. SUITE 800			FANG, SHANE	
WASHINGTON	N, DC 20037		ART UNIT	PAPER NUMBER
			1766	
			NOTIFICATION DATE	DELIVERY MODE
			06/03/2011	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

sughrue@sughrue.com PPROCESSING@SUGHRUE.COM USPTO@SUGHRUE.COM

	Application No.	Applicant(s)				
	10/588,266	ONODERA ET AL.				
Office Action Summary	Examiner	Art Unit				
	SHANE FANG	1766				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ad	ldress			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be time rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	N. nely filed the mailing date of this co D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 12 M	av 2011.					
/ <u></u>	action is non-final.					
3) Since this application is in condition for allowar		secution as to the	e merits is			
closed in accordance with the practice under E	·					
Disposition of Claims						
4) Claim(s) <u>1-18</u> is/are pending in the application.						
4a) Of the above claim(s) <i>7-18</i> is/are withdrawn	from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-6</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examine	•					
10) The drawing(s) filed on is/are: a) acce		Examiner.				
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correcti			FR 1.121(d).			
11) The oath or declaration is objected to by the Ex	• • • • • • • • • • • • • • • • • • • •					
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. & 119(a)	-(d) or (f)				
a) ⊠ All b) ☐ Some * c) ☐ None of:	priority and or or orong 1 ro(a)	(4) 01 (1).				
1.☐ Certified copies of the priority documents	s have been received.					
2. Certified copies of the priority documents		on No				
3. Copies of the certified copies of the prior	· ·		Stage			
application from the International Bureau	(PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list	of the certified copies not receive	d.				
Attachmont/o\						
Attachment(s) 1) X Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of heterefices cited (FTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate				
3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal P	atent Application				
Paper No(s)/Mail Date 12/30/10 12/04/07,9/12/07,9/03/06	out to their					

DETAILED ACTION

All of the X-references cited in the International Search Report have been considered. The most pertinent of these references have been applied below.

Election/Restrictions

The applicant has elected Group I (claims 1-6) without traverse.

This restriction is made FINAL. See previous action for the reasons of applying restriction.

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 1-6 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

A broad range or limitation together with a narrow range or limitation that falls within the broad range or limitation (in the same claim) is considered indefinite, since the resulting claim does not clearly set forth the metes and bounds of the patent protection desired. See MPEP § 2173.05(c). Note the explanation given by the Board of Patent Appeals and Interferences in *Ex parte Wu*, 10 USPQ2d 2031, 2033 (Bd. Pat. App. & Inter. 1989), as to where broad language is followed by "such as" and then narrow language. The Board stated that this can render a claim indefinite by raising a question or doubt as to whether the feature introduced by such language is (a) merely exemplary of the remainder of the claim, and therefore not required, or (b) a required

feature of the claims. Note also, for example, the decisions of *Ex parte Steigewald*, 131 USPQ 74 (Bd. App. 1961); *Ex parte Hall*, 83 USPQ 38 (Bd. App. 1948); and *Ex parte Hasche*, 86 USPQ 481 (Bd. App. 1949).

In the present instance, claim 1 recites the broad recitation r represents 0 or >0 of formula (3), resulting in a homopolymer or copolymer. However, formula (3) is also defined as a copolymer, a narrower limitation that would not include a homopolymer species. For examination purpose, the boarder limitations are considered based on the principle of broadest interpretation of claims.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-6 are rejected under 35 U.S.C. 102(b) as being anticipated by Onodera et al. (JP2002044343) listed on ISP and IDS.

As to claims 1-6, Onodera (Abstract, claims 1-4, 0001-10, 0014-20, Ex.1-2) discloses a process of producing a polyarylene homopolymer or a copolymer comprising polyarylene segments having side groups of sulfonic acid or a salt thereof, wherein the copolymer repeating units=10-100k. Onodera discloses the polymerization of 2,5-dichlorobenzene sulfonic acid, in presence of 2,2'-bipyridyl, and using Nickel(0)bis(cyclooctadiene) as catalyst at 60 °C.

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Conclusion

Any inquiry concerning this communication or earlier communications from the

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examiner should be directed to SHANE FANG whose telephone number is (571)270-

7378. The examiner can normally be reached on Mon.-Thurs. 8 a.m. to 6:30 p.m. EST..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Randy Gulakowski can be reached on (571) 272-1302. The fax phone

number for the organization where this application or proceeding is assigned is 571-

273-8300.

Information regarding the status of an application may be obtained from the

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Sf

/RANDY GULAKOWSKI/

Supervisory Patent Examiner, Art Unit 1766

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